CLAIMS

1. A transmitting apparatus comprising:

10

25

an orthogonal frequency division multiplexing

5 section that performs orthogonal frequency division
multiplexing of a transmit signal;

an insertion section that inserts a guard interval in a transmit signal that has undergone orthogonal frequency division multiplexing by said orthogonal frequency division multiplexing section; and

a control section that increases a length of said guard interval inserted by said insertion section as a number of retransmissions increases.

- The transmitting apparatus according to claim 1, further comprising a coding section that turbo codes said transmit signal and outputs systematic bit data and parity bit data, wherein said control section inserts a guard interval independently for said systematic bit data and said parity bit data.
 - 3. The transmitting apparatus according to claim 2, wherein said control section makes a length of said guard interval of said systematic bit data longer than a length of said guard interval of said parity bit data.
 - 4. The transmitting apparatus according to claim 2, wherein said control section lengthens only said guard

interval of said systematic bit data as said number of retransmissions increases.

- 5. The transmitting apparatus according to claim 2, further comprising an allocation section that allocates said systematic bit data and said parity bit data to different symbols.
- The transmitting apparatus according to claim 1,
 wherein said control section sets a length of said guard interval according to delay distribution information.
 - 7. The transmitting apparatus according to claim 6, wherein said delay distribution information is
- 15 transmitted from a communicating party.
 - 8. The transmitting apparatus according to claim 6, wherein said delay distribution information is detected from a received signal.

20

- 9. The transmitting apparatus according to claim 1, wherein said control section sets a length of said guard interval according to a transmission time interval.
- 25 10. The transmitting apparatus according to claim 1, wherein said control section sets a length of said guard interval according to a used band.

11. The transmitting apparatus according to claim 10, wherein said control section makes said guard interval larger in proportion as a ratio of said used band to a band whose use is permitted is smaller.

5

10

- 12. The transmitting apparatus according to claim 1, further comprising a spreading section that performs spreading processing of a transmit signal, wherein said orthogonal frequency division multiplexing section performs orthogonal frequency division multiplexing processing of a transmit signal that has undergone spreading processing by said spreading section.
- 13. The transmitting apparatus according to claim 12,
 15 wherein a spreading ratio of said spreading section is made "1" and a code multiplexing number of said transmit signal is made "1."
- 14. The transmitting apparatus according to claim 1,
 20 wherein said control section makes a length of a guard interval in a retransmission an integral multiple of a length of a guard interval in a first transmission.
- 15. A base station apparatus equipped with a
 25 transmitting apparatus, said transmitting apparatus
 comprising:

an orthogonal frequency division multiplexing section that performs orthogonal frequency division

multiplexing of a transmit signal;

5

15

an insertion section that inserts a guard interval in a transmit signal that has undergone orthogonal frequency division multiplexing by said orthogonal frequency division multiplexing section; and

a control section that increases a length of said guard interval inserted by said insertion section as a number of retransmissions increases.

10 16. A communication terminal apparatus equipped with a transmitting apparatus, said transmitting apparatus comprising:

an orthogonal frequency division multiplexing section that performs orthogonal frequency division multiplexing of a transmit signal;

an insertion section that inserts a guard interval in a transmit signal that has undergone orthogonal frequency division multiplexing by said orthogonal frequency division multiplexing section; and

a control section that increases a length of said guard interval inserted by said insertion section as a number of retransmissions increases.

17. A transmitting method comprising:

a step of performing orthogonal frequency division multiplexing of a transmit signal;

a step of inserting a guard interval in a transmit signal that has undergone orthogonal frequency division

multiplexing; and

a step of lengthening a guard interval inserted by said insertion step as a number of retransmissions increases.

5